

**ABSTRACT****METHOD AND APPARATUS FOR DETERMINING PROPERTIES OF A  
TRANSMISSION CHANNEL**

The invention concerns a time domain reflectometry method for estimating  
5 properties of a transmission channel, for instance a channel for transmitting electric  
or acoustic signals.

This method comprises the steps of generating, at one end of the channel,  
a plurality of pulses (40, 42, 44) covering different frequency bands, and of  
processing the echoes provided by these pulses at the same end of the channel.

10 The frequency bands of the generated pulses are preferably overlapping.  
Application to the testing of ADSL services.

**Figure 2:**